

DLD Human

Description:DLD Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 511 amino acids (36-509 a.a.) and having a molecular mass of 54.4 kDa. The DLD is fused to a 37 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #:ENPS-509

For research use only.

Synonyms:EC 1.8.1.4, DLD, DLDH, GCSL, PHE3, Dihydrolipoyl dehydrogenase mitochondrial, Dihydrolipoamide dehydrogenase, Glycine cleavage system L protein, LAD, E3.

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered clear colorless solution.

Amino Acid Sequence:MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMADQ
PIDADVTVIG SGPGGYVAAI KAAQLGFKTV CIEKNETLGG TCLNVGCIPS KALLNNSHYY
HMAHGKDFAS RGIEMSEVRL NLDKMMEQKS TAVKALTGGI AHLFKQNKVV HVNGYGGKITG
KNQVTATKAD GGTQVIDTKN ILIATGSEVT PFPGITIDED TIVSSTGALS LKKVPEKMVV
IGAGVIGVEL GS

Purity:Greater than 95% as determined by SDS-PAGE.

Formulation:

The DLD solution contains 20mM Tris-HCl pH-8, 1mM DTT, 0.1M NaCl and 10% glycerol.

Stability:

DLD Recombinant Human although stable at 4°C for 30 days, should be stored below -20°C for periods greater than 30 days. Please avoid freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

DLD is an L protein of the mitochondrial glycine cleavage system which is also a component of the pyruvate dehydrogenase complex, the alpha-ketoglutarate dehydrogenase complex, and the branched-chain alpha-keto acide dehydrogenase complex. DLD mutations were found in patients with E3-deficient maple syrup urine disease and lipoamide dehydrogenase deficiency.

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